



PRODUCT INFORMATION SHEET

Number PD-1

PRODUCT NAME: REMET FUSED SILICA

REMET FUSED SILICA is made from pure, natural, white silica sand, by melting in specially designed electric furnaces at a temperature of 3600°F. At this temperature, the crystalline quartz melts and becomes non-crystalline. The resulting refractory has a low thermal expansion coefficient indicating excellent thermal shock resistance.

TYPICAL ANALYSIS STANDARD PRODUCTS

	POWDERS			GRAINS		
	Typical	Min	Max	Typical	Min	Max
SiO ₂ , %	99.8	99.7	-	99.8	99.7	-
Al ₂ O ₃ , ppm	1000	-	3000*	600	-	1000
Fe ₂ O ₃ , ppm	150	-	350	150	-	300
Magnetic Fe, ppm	<75	-	75	<20	-	25
CaO, ppm	30	-	50	30	-	50
MgO, ppm	10	-	50	10	-	50
K ₂ O, ppm	30	-	50	30	-	50
Na ₂ O, ppm	20	-	50	20	-	50
C, ppm	100	-	-	100	-	-

* The finer the particle size, the higher the Al₂O₃ level due to the use of high density Al₂O₃ grinding media.

PHYSICAL

Specific Gravity	2.2
Coefficient of Thermal Expansion	3.0 x 10 ⁻⁷ in/in/°F (5.0 x 10 ⁻⁷ cm/cm/°C)
PCE	32
pH (Distilled Water Dispersion)	6.8 (Powder) - 6.5 (Grain)
Crystallinity	0.5-0.6 (typical; 0.75% max.)

NOTE: Unless specifically identified as a specification value, the above chemical, physical and particle size distribution values are typical properties. They are not specification values.

Contact your REMET Territory Manager regarding product specifications or for any additional information.

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SCREEN ANALYSIS U.S. STANDARD SIEVE (% Retained)

		GRAINS					
Mesh USSS	Opening	<u>-80+100</u>	<u>RG1</u>	<u>RG2</u>	<u>RG2-C</u>	<u>RG3</u>	<u>RG4</u>
+10	2.00 mm	-	-	-	-	< 1	-
+20	0.850 mm	-	-	< 1	1	88	78
+30	0.600 mm	-	-	30	60	9	20
+40	0.425 mm	-	< 1	39	35	2	-
+50	0.300 mm	< 1	8	25	2	-	1
+80	0.180 mm	16	-	5	1	-	-
+100	0.150 mm	40	80	-	-	-	-
+140	0.106 mm	40	10	-	-	-	-
+200	0.075 mm	2	1	-	-	-	-
Pan*		2	< 1	< 1	< 1	1	1

		POWDERS					
Mesh USSS	Opening	<u>RP1</u>	<u>-140</u>	<u>RP2</u>	<u>RPD</u>	<u>-270F</u>	<u>-325</u>
+30	0.600 mm	0	0	0	0	0	0
+50	0.300 mm	-	-	< 1	-	-	-
+60	0.250 mm	-	< 1	-	< 1	-	-
+80	0.180 mm	< 1	2	-	1	< 1	-
+100	0.150 mm	< 1	3	8	3	< 1	Tr
+140	0.106 mm	2	8	10	5	1	Tr
+200	0.075 mm	6	10	12	10	2	Tr
+325	0.045 mm	17	22	20	16	12	1
Pan*		75	55	50	65	85	99

* PAN designates the percentage of material passing the last reported screen for each sizing

SAFETY PRECAUTIONS: Read MSDS before using this product.

PACKAGING: 55 lb. multi-wall paper bags, on 2,200 lb. non-returnable wooden pallets.

SHIPPING CLASSIFICATION: Silica, NOI

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